

ASTM A 194M 8LN

STAINLESS STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 8LN nuts are intended for high-pressure or high-temperature service or both, Austenitic stainless steel may be solution annealed or annealed and strain-hardened. When annealed and strain hardened austenitic stainless steel is ordered in accordance with Supplementary requirement, AISI Type 304N with restricted Carbon, For grades of alloy-steel bolting material suitable for use at lower range of high-temperature applications, reference should be made to ASME Specification SA 354. Use of coated fasteners at temperature above approximately one-half the melting point of coating is not recommended unless consideration is given to the potential for liquid and solid metal embrittlement, or both.

Chemical Properties

C	Si	Mn	P	S	Cr	Ni	N
0.030 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	18.0-20.0	8.0-11.0	0.10-0.16

Mechanical Properties

Proof Load Using Threaded Mandrel- METRIC (kN)

Hardness

TYPE	M6	M8	M10	M12	M14	M16	BHN	HRB	HRC
HEAVY HEX	11.1	20.1	31.9	46.4	63.3	86.4			
HEX	10.4	18.8	29.9	43.4	59.2	80.9	126-300	60-105	-

TYPE	M20	M22	M24	M27	M30	M36
HEAVY HEX	134.8	166.7	194.2	252.5	308.6	449.4
HEX	126.2	156	181.8	236.4	288.9	420.8

Heat Treatment

Carbide Solution Treated.

Equivalent Designation

UNS S30453

CUSTOMER ASSISTANCE : customer@TorqBolt.com